

COMBINED DECLARATION AND PRINCIPAL POWER OF ATTORNEY
FOR PATENT APPLICATION

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below, next to my name.

I believe that I am, an original, first, and joint inventor of the subject which is claimed and for which a patent is sought on the invention entitled:

"IMPROVED DIGITAL-DATA RECEIVER SYNCHRONIZATION METHOD AND APPARATUS"

the specification of which was filed on September 1, 2000 and assigned U.S. Serial No. 09/653,788.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, CFR §1.56(a).

I hereby appoint the following attorneys to prosecute this application and transact all business in the Patent and Trademark Office connected therewith:

Vincent A. Branton	Registration No. 39,120
George L. Craig	Registration No. 29,293
J. Kenneth Davis	Registration No. 38,426
Joseph A. Marasco	Registration No. 32,798
James M. Spicer	Registration No. 26,096
Shelley L. Stafford	Registration No. 38,623
Kirk A. Wilson	Registration No. 45,939

All of: UT-Battelle LLC
P.O. Box 2008
Oak Ridge Tennessee 32831-6498

Please direct all correspondence and telephone calls to the individual identified in the Associate Power of Attorney.

I hereby declare that all statements made herein of my knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

FULL NAME OF FIRST INVENTOR: Stephen F. Smith
Citizenship: USA
Residence: Loudon, Tennessee
Post Office Address: 550 Pickel Road
Loudon, Tennessee 37774

Inventor's Signature: Stephen F. Smith

Date: 11/02/2000

☐ One Sole Inventor

☒ Additional Inventors are named on separately numbered sheets attached hereto

Combined Declaration and Power of Attorney - Continued

FULL NAME OF SECOND INVENTOR: Gary W. Turner
Citizenship: USA
Residence: Clinton, Tennessee
Post Office Address: 106 Lexington Lane
Clinton, Tennessee 37716

Inventor's Signature: Gary W. Turner Date: 11-2-00

Attorney Docket No: 25016-49
Serial No.: 09/653,788
Filing Date: September 1, 2000

(ID #:0679)

**ASSOCIATE POWER OF ATTORNEY
FOR
PATENT APPLICATION
Pursuant to 35 C.F.R. §1.34**

Please recognize as Associate Attorney in this case, entitled:

**IMPROVED DIGITAL-DATA RECEIVER SYNCHRONIZATION
METHOD AND APPARATUS**

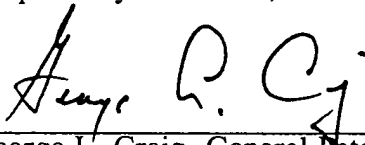
John B. Hardaway, III	Registration No. 26,554
Michael A. Mann	Registration No. 32,825
Oscar A. Towler, III	Registration No. 33,803
J. Herbert O'Toole	Registration No. 31,404
Charles L. Schwab	Registration No. 17,497
Joseph T. Guy	Registration No. 35,172
William Y. Klett, III	Registration No. 41,903

All of:

NEXSEN PRUET JACOBS & POLLARD, LLP
P.O. Box 10107, Federal Station
Greenville, SC 29603-0107
Telephone Number: 864-233-6700

Please direct all correspondence and telephone calls to John B. Hardaway, III.

Respectfully submitted,



George L. Craig, General Patent Counsel
Registration No. 29,293
UT-Battelle, LLC
P.O. Box 2008
Oak Ridge, TN 37831-6498
Telephone: 865-576-6883
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U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office



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To the Honorable Commissioner of Patents

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with the attached original documents or copy thereof.

1. Name of conveying party(ies):
Stephen F. Smith
Gary W. Turner

Additional names(s) of conveying party(ies) ☐ Yes ☒ No

2. Name and address of receiving party(ies):

Name: **UT-Battelle LLC**

Address: **Post Office Box 2008**

City: **Oak Ridge** State/Prov.: **TN**

Country: **USA** ZIP: **37831-6498**

Additional name(s) & address(es) ☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment ☐ Merger

☐ Security Agreement ☐ Change of Name

☐ Other

Execution Date: **December 11, 2000**

4. Application number(s) or registration numbers(s):

If this document is being filed together with a new application, the execution date of the application is:

Patent Application No.	Filing date	B. Patent No. 581
09/653,788	September 1, 2000	

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner of Patents and Trademarks, Washington, D.C. 20231, on **12-22-00**

[Signature]
Date

Additional numbers ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: **John B. Hardaway, III**

Registration No. **26,554**

Address: **Nexsen Pruet Jacobs & Pollard, LLP**

P.O. Box 10107

City: **Greenville** State/Prov.: **SC**

Country: **USA** ZIP: **29603**

6. Total number of applications and patents involved: **1**

7. Total fee (37 CFR 3.41):\$ **40.00**

☒ Enclosed - Any excess or insufficiency should be credited or debited to deposit account

☐ Authorized to be charged to deposit account

8. Deposit account number:

[Redacted]

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Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Oscar A. Towler, III/Registration No. 3

Name of Person Signing

[Signature]

Signature

22 December 2000

Date

Total number of pages including cover sheet, attachments, and **4**

ASSIGNMENT OF PATENT APPLICATION

WHEREAS, We, the below-named inventors whose residences and post office addresses are as stated below, have invented certain new and useful improvements in a

IMPROVED DIGITAL-DATA RECEIVER SYNCHRONIZATION METHOD AND APPARATUS

for which an application for United States Letters Patent was filed **September 1, 2000** and assigned U.S. Serial No. **09/653,788**, and

WHEREAS, UT-BATTELLE, LLC, a Limited Liability Company of the State of Tennessee, having an office at Oak Ridge National Laboratory, Post Office Box 2008, Oak Ridge, Tennessee 37831-6498, hereinafter called the ASSIGNEE, is desirous of acquiring the entire right, title and interest in the application and invention and to any Letters Patent that may be granted therefor in the United States of America and in any and all foreign countries.

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, We hereby assign to ASSIGNEE the entire right, title and interest in the application and the invention, to all rights of priority thereto pursuant to the International Convention for the Protection of Industrial Property, and in any Letters Patent on the invention that may be granted in the United States of America and in any and all foreign countries, including any and all Letters Patent that are divisions, reissues, continuations, substitutions or extensions of any Letters Patent or applications therefor on the invention.

We hereby authorize and request the Commissioner of the United States Patent and Trademark Office and the officials of any and all foreign countries to issue any and all of said Letters Patent, when granted, to the ASSIGNEE.

Further, We hereby agree to communicate to said ASSIGNEE or its representatives any facts known to me respecting said invention, to testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, substitution, renewal and reissue applications, to execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said ASSIGNEE, and to make all rightful oaths and generally do everything possible to aid said ASSIGNEE and its representatives to obtain and enforce proper protection for said invention in the United States of American and in any and all foreign countries.

We further agree that the terms, covenants and conditions of this assignment shall inure to the benefit of ASSIGNEE, its successors, assigns, and legal representatives, and shall be binding on us, our heirs' legal representatives, and assigns.

Full name of first inventor:
Address:

Stephen F. Smith
550 Pickel Road
Louden, TN 37774

Signature:

Stephen F. Smith

Date:

December 11, 2000

State of Tennessee)
County of Roane)

On this 11th day of December, 2000, before me, a Notary Public in and for the County and State aforesaid, appeared Stephen F. Smith to me personally known to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he executed said instrument as his free and voluntary act and for the uses and purposes therein expressed.

WITNESS my hand and seal the day and year last above given.

James M. Spicer
Notary Public for the State of:
Tennessee

(SEAL)

My Commission Expires:

August 16, 2004

Full name of second inventor:
Address:

Gary W. Turner
106 Lexington Lane
Clinton, TN 37716

Signature:

Gary W. Turner

Date:

12-11-00

State of Tennessee)
County of Roane)

On this 11th day of December, 2000, before me, a Notary Public in and for the County and State aforesaid, appeared Gary W. Turner to me personally known to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he executed said instrument as his free and voluntary act and for the uses and purposes therein expressed.

WITNESS my hand and seal the day and year last above given.

James M. Spicer
Notary Public for the State of:
Tennessee

(SEAL)

My Commission Expires:

August 16, 2004